

6.1 Differential Equations and Slope Fields

Find all solutions to the differential equation $\frac{dy}{dx} = \sec^2 x + 2x + 5$

Find the specific solution that satisfies the initial conditions $x=0, y=7$

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Find the general and specific solutions to

$$\frac{dy}{dx} = e^x - 6x^2 \quad \text{initial conditions: } (1,0)$$

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Solve $y'=\cos(x)$ algebraically and graphically

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Solve $y'=x+y$ graphically

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